

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/016,192	WILENSKY ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	DAVID SILVER	2128	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Decision by BPAI rendered 8/19/2009.
2. ☒ The allowed claim(s) is/are 1-4 and 6-14.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input checked="" type="checkbox"/> Other <u>See Continuation Sheet.</u></li> </ol> |
|--|---|

/Kamini S Shah/  
 Supervisory Patent Examiner, Art Unit 2128

Continuation of Attachment(s) 9. Other: Two emails showing authorization for Examiner's Amendment. Both dated 12/9/2009.

Art Unit: 2128

### DETAILED ACTION

1. Claims 1-4, and 6-14 are allowed over the prior art of record.

### EXAMINER'S AMENDMENT

Authorization for this examiner's amendment was given in a telephone interview and e-mail correspondence with MICHAEL CANNATTI on 12/8/2009, 12/9/2009 and 12/10/2009.

The application has been amended as follows:

- REPLACED claim 1 with the claim 1 below:

1 (Currently Amended). A modeling device for a simulation of complex dynamic systems, comprising:

a plurality of remote agents, each remote agent comprising:  
logic to receive input data;

object control node information corresponding to performance of the remote agent and a relationship of the remote agent to the simulation;

control instructions to convert the input data into the control node information; and

logic to transmit the object control node information and the control instructions to a server computing device; and

the server computing device, comprising:

an object-based parallel modeling language component that collects object control node information and control instructions corresponding to each of the remote agents of the plurality of remote agents and coordinates the interaction of the remote agents based upon the collected object control node information and control instructions;

processing logic for generating interactive simulation information based upon the interaction of the remote agents by processing a string corresponding to each of the remote agents to identify first or second co-positioning effects, where the first co-positioning effect deletes a first object associated with a first remote agent if the first object is not co-positioned with another object within a predetermined amount of time, and where the second co-positioning effect duplicates a second object associated with a second remote agent if the second object is co-positioned with another object; [[and]]

logic to transmit interactive simulation information [[based upon the interaction of the remote agents]] to the plurality of remote agents; and

a central control panel comprising a graphical display for viewing the simulation information.

- CANCELLED claim 5

Art Unit: 2128

- REPLACED claim 6 and 7 with claims 6 and 7 below, respectively:

6 (Currently Amended). The modeling device of claim [[5]]1, wherein the graphical display also displays input information and status data for a selected remote agent of the plurality of remote agents.

7 (Currently Amended). The modeling device of claim [[5]]1, the central control panel further comprising:

a plurality of user input devices for providing direct interaction with the object-based parallel modeling language component by enabling a user to input information and control instructions, both corresponding to a selected remote device.

- REPLACED claim 8 with the claim 8 below:

8 (Currently Amended). A method of producing a coordinated and interactive simulation of a dynamic system, comprising the steps of:

defining a set of remote agents, wherein each remote agent performs the steps of:

receiving input data; and

transmitting the input data and control instructions relating to a corresponding remote agent of the set of remote agents to a server computing device; [[and]]

collecting the input data and control instructions from each of the remote agents of the plurality of remote agents at the server computing device;

coordinating the interaction of the remote agents at the server computing device to generate interactive simulation information based upon the input data and the control instructions from each remote agent by processing a string of input data and control instructions corresponding to each of the remote agents to identify first or second co-positioning effects, where the first co-positioning effect deletes a first object associated with a first remote agent if the first object is not co-positioned with another object within a predetermined amount of time, and where the second co-positioning effect duplicates a second object associated with a second remote agent if the second object is co-positioned with another object;[[, each set of control instructions corresponding to the set of control instructions of each remote agent of the plurality of remote agents]]; and

transmitting interactive simulation information based upon the coordination of the interaction of the remote agents from the server computing device to the plurality of remote agents.

Art Unit: 2128

***Allowable Subject Matter***

Claims 1-4 and 6-14 allowed.

The following is an examiner's statement of reasons for allowance:

The case is deemed allowable based on the decision rendered by the Board of Appeals, dated 8/13/2009, and in view of the specific amendments made after the decision to help expedite prosecution. Specifically, the following emphasized features rendered the claims allowable when viewed in combination with the remainder of the claim limitations:

processing logic for generating interactive simulation information based upon the interaction of the remote agents by processing a string corresponding to each of the remote agents to identify first or second co-positioning effects, where the first co-positioning effect deletes a first object associated with a first remote agent if the first object is not co-positioned with another object within a predetermined amount of time, and where the second co-positioning effect duplicates a second object associated with a second remote agent if the second object is co-positioned with another object;

displaying on a central control panel comprising a graphical display the simulation information.

The art of record, either individually or in combination, fails to teach, suggest, or render obvious invention having the corresponding function that is claimed. In view of the foregoing, the Instant Claims of the present application are found to be patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Silver whose telephone number is (571) 272-8634. The examiner can normally be reached on Monday thru Friday, 10am to 6:30pm.

Art Unit: 2128

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on 571-272-2279. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Kamini S Shah/  
Supervisory Patent Examiner, Art Unit 2128